

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A method for making a pelleted animal feed supplement comprising:
 - crushing a solid urea product having an average particle size of at least 2.5 millimeters to form a crushed urea having an average size of from about 0.4 millimeters to about 2.0 millimeters;
 - adding said crushed urea to at least one animal feed ingredient; and
 - forming said pelleted animal feed supplement.
2. (Original) The method according to claim 1, wherein said crushed urea has an average particle size of between about 0.6 millimeters to about 1.65 millimeters.
3. (Original) The method according to claim 1, wherein said crushed urea has an average particle size of between about 0.7 millimeters to about 1.5 millimeters.
4. (Original) The method according to claim 1, wherein said at least one animal feed ingredient is selected from the group consisting of grain products, plant protein products, animal protein products, roughage products, and vitamin and mineral supplements, and mixtures thereof.
5. (Original) The method according to claim 1, wherein the crushing of said solid urea product is performed in a roller mill.
6. (Original) The method according to claim 1, wherein said solid urea product is a fertilizer grade prilled urea product.
7. (Original) The method according to claim 6, wherein said fertilizer grade prilled urea product has a particle size of between 2.5 millimeters and 5 millimeters.

8. (Original) The method according to claim 1, wherein said solid urea product is a fertilizer grade granular urea product.

9. (Original) A method for making an animal feed product comprising:
crushing a solid urea product having an average particle size of at least 2.5 millimeters to form a crushed urea having an average size of from about 0.4 millimeters to about 2.0 millimeters;

adding said crushed urea to at least one animal feed ingredient;
forming a pelleted animal feed supplement product; and
mixing said pelleted animal feed supplement product with an animal feedstuff product.

10. (Original) The method according to claim 9, wherein said crushed urea has an average particle size of between about 0.6 millimeters to about 1.65 millimeters.

11. (Original) The method according to claim 9, wherein said crushed urea has an average particle size of between about 0.7 millimeters to about 1.5 millimeters.

12. (Original) The method according to claim 9, wherein said at least one animal feed ingredient is selected from the group consisting of grain products, plant protein products, animal protein products, roughage products, and vitamin and mineral supplements, and mixtures thereof.

13. (Original) The method according to claim 9, wherein said animal feedstuff product is selected from the group consisting of corn silage, grass haylage, alfalfa haylage, steam flaked corn, alfalfa hay, grass hay, animal production wastes, fruit wastes, vegetable processing wastes, green chop plant products, fermented milk products, brewery wastes, and human food waste.

14. (Original) The method according to claim 13, wherein said animal feedstuff product is selected from the group consisting of corn silage, grass or alfalfa haylage, steam flaked corn, alfalfa or grass hay.

15. (Original) The method according to claim 9, wherein the crushing of said solid urea product is performed in a roller mill.

16. (Original) The method according to claim 9, wherein said solid urea product is a fertilizer grade prilled urea product.

17. (Original) The method according to claim 16, wherein said fertilizer grade prilled urea product has a particle size of between about 2.5 millimeters and about 5 millimeters.

18. (Original) The method according to claim 9, wherein said solid urea product is a fertilizer grade granular urea product.

19. (Original) A method for making a complete animal feed product comprising:
crushing a solid urea product having an average particle size of at least 2.5 millimeters to a crushed urea having an average size of from about 0.4 millimeters to about 2.0 millimeters;
adding said crushed urea to at least one animal feed ingredient; and
forming a complete animal feed product.

20. (Original) The method according to claim 19, wherein said crushed urea has an average particle size of between about 0.6 millimeters to about 1.65 millimeters.

21. (Original) The method according to claim 19, wherein said crushed urea has an average particle size of between about 0.7 millimeters to about 1.5 millimeters.

22. (Original) The method according to claim 19, wherein said at least one animal feed ingredient is selected from the group consisting of grain products, plant protein products, animal protein products, roughage products, and vitamin and mineral supplements, and mixtures thereof.

23. (Original) The method according to claim 19, wherein the crushing of said solid urea product is performed in a roller mill.

24. (Original) The method according to claim 19, wherein said solid urea product is a fertilizer grade prilled urea product.

25. (Currently Amended) The method according to claim 19 24, wherein said fertilizer grade prilled urea product has a particle size of between about 2.5 millimeters and about 5 millimeters.

26. (Original) The method according to claim 19, wherein said solid urea product is a fertilizer grade granular urea product.

27. (Currently Amended) A pelleted animal feed supplement comprising:
at least one animal feed ingredient; and
a crushed solid urea, pelleted with said at least one animal feed supplement ingredient, wherein said crushed solid urea has an average particle size from about 0.4 millimeters to about 2 millimeters, and further wherein said urea is not a micro-prilled urea.

28. (Currently Amended) The composition pelleted animal feed supplement according to claim 27, wherein said crushed solid urea has an average particle size of between about 0.6 millimeters to about 1.65 millimeters.

29. (Currently Amended) The composition pelleted animal feed supplement according to claim 27, wherein said crushed solid urea has an average particle size of between about 0.7 millimeters to about 1.5 millimeters.

30. (Currently Amended) The composition pelleted animal feed supplement according to claim 27, wherein said at least one animal feed supplement ingredient is selected from the group consisting of grain products, plant protein products, animal protein products, roughage products, and vitamin and mineral supplements, and mixtures thereof.

31. (Currently Amended) The composition pelleted animal feed supplement according to claim 27, wherein said crushed solid urea is present in an amount of from about 0.5 to about 100% by weight of said pelleted animal feed supplement.

32. (Currently Amended) The composition pelleted animal feed supplement according to claim 27, wherein said crushed solid urea contributes between 0.5 to 100% of the total crude protein of said pelleted animal feed supplement.

33. (Currently Amended) The composition pelleted animal feed supplement according to claim 27, wherein said crushed solid urea has a sphericity, ψ , of from about 0.05 to about 0.65.

34. (Currently Amended) The composition pelleted animal feed supplement according to claim 27, wherein said crushed solid urea has a Waddell roundness, ρ , of from about 0.05 to about 0.25.

35. (Currently Amended) The composition pelleted animal feed supplement according to claim 27, wherein said crushed solid urea product has a sphericity, ψ , of from about 0.05 to about 0.65 and a Waddell roundness, ρ , of from about 0.05 to about 0.25.

36. (Currently Amended) The composition pelleted animal feed supplement according to claim 27, wherein said animal feed supplement is a ruminant animal feed supplement.

37. (Currently Amended) An animal feed comprising:

at least one animal feed ingredient;

a crushed solid urea, pelleted with said animal feed supplemental ingredient to form a pelleted animal feed supplement product, wherein said crushed solid urea has an average particle size from about 0.4 millimeters to about 2 millimeters, ~~and wherein said solid urea is not a micro-prilled urea~~; and

an animal feedstuff product mixed with said pelleted animal feed supplement product.

38. (Currently Amended) The composition animal feed according to claim 37, wherein said crushed solid urea has an average particle size of between about 0.6 millimeters to about 1.65 millimeters.

39. (Currently Amended) The composition animal feed according to claim 37, wherein said crushed solid urea has an average particle size of between about 0.7 millimeters to about 1.5 millimeters.

40. (Currently Amended) The composition animal feed according to claim 37, wherein said at least one animal feed supplement ingredient is selected from the group consisting of grain products, plant protein products, animal protein products, roughage products, and vitamin and mineral supplements, and mixtures thereof.

41. (Currently Amended) The composition animal feed according to claim 37, wherein said animal feedstuff product is selected from the group consisting of corn silage, grass haylage, alfalfa haylage, steam flaked corn, alfalfa hay, grass hay, animal production wastes, fruit wastes, vegetable processing wastes, green chop plant products, fermented milk products, brewery wastes, and human food waste.

42. (Currently Amended) The composition animal feed according to claim 41, wherein said animal feedstuff product is selected from the group consisting of corn silage, grass haylage, alfalfa haylage, steam flaked corn, alfalfa hay, and grass hay.

43. (Currently Amended) The composition animal feed according to claim 37, wherein said crushed solid urea is present in an amount of from about 0.5 to about 100% by weight of said pelleted animal feed supplement.

44. (Currently Amended) The composition animal feed according to claim 37, wherein said crushed solid urea has a sphericity, ψ , of from about 0.05 to about 0.65.

45. (Currently Amended) The ~~composition~~ animal feed according to claim 37, wherein said crushed solid urea has a Waddell roundness, ρ , of from about 0.05 to about 0.25.

46. (Currently Amended) The ~~composition~~ animal feed according to claim 37, wherein said crushed solid urea product has a sphericity, ψ , of from about 0.05 to about 0.65 and a Waddell roundness, ρ , of from about 0.05 to about 0.25.

47. (Currently Amended) The ~~composition~~ animal feed according to claim 37, wherein said animal feed is a ruminant animal feed.

48. (Currently Amended) A complete animal feed comprising:
at least one animal feed ingredient; and
a crushed solid urea combined with said animal feed ingredient to form a complete animal feed product, wherein said crushed solid urea has an average particle size from about 0.4 millimeters to about 2 millimeters; ~~and wherein said solid urea is not a micro-prilled urea.~~

49. (Currently Amended) The complete animal feed according to claim 48, wherein said crushed solid urea has an average particle size of between about 0.6 millimeters to about 1.65 millimeters.

50. (Currently Amended) The complete animal feed according to claim 48, wherein said crushed solid urea has an average particle size of between about 0.7 millimeters to about 1.5 millimeters.

51. (Currently Amended) The complete animal feed according to claim 48, wherein said at least one animal feed ingredient is selected from the group consisting of grain products, plant protein products, animal protein products, roughage products, and vitamin and mineral supplements, and mixtures thereof.

52. (Currently Amended) The complete animal feed according to claim 48, wherein said crushed solid urea is present in an amount of from about 0.1 to about 2% by weight of said animal feed product.

53. (Currently Amended) The complete animal feed according to claim 48, wherein said crushed solid urea has a sphericity, ψ , of from about 0.05 to about 0.65.

54. (Currently Amended) The complete animal feed according to claim 48, wherein said crushed solid urea has a Waddell roundness, ρ , of from about 0.05 to about 0.25.

55. (Currently Amended) The complete animal feed according to claim 48, wherein said crushed solid urea has a sphericity, ψ , of from about 0.05 to about 0.65 and a Waddell roundness, ρ , of from about 0.05 to about 0.25.

56. (Currently Amended) The complete animal feed according to claim 48, wherein said complete animal feed product is pelleted.

57. (New) The method according to claim 1, wherein said solid urea product is not a micro-prilled urea.

58. (New) The method according to claim 9, wherein said solid urea product is not a micro-prilled urea.

59. (New) The method according to claim 19, wherein said solid urea product is not a micro-prilled urea.